

# EXHIBIT JJ

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3 30(b)(6) DEPOSITION UPON ORAL EXAMINATION OF

4 OFFICE OF THE WASHINGTON STATE AUDITOR

5 LISA WEBER, Ph.D.

6 ALL PARTIES APPEARED REMOTELY VIA ZOOM

7 \*\*\*AFTERNOON SESSION\*\*\*

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10  
11 1:10 P.M.

12  
13 OCTOBER 14, 2022

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15 LOCATION OF WITNESS: OLYMPIA, WASHINGTON

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24 REPORTED BY: JUDY STEENBERGEN-WEBB, WA CCR NO. 2495

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1 AFTERNOON SESSION  
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3 OLYMPIA, WASHINGTON; OCTOBER 14, 2022  
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5 1:10 P.M.  
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7 --OOO--  
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9 (Pursuant to Washington Supreme Court  
10 Order Number 25700-A-1311, a remote  
11 oath was administered by the Certified  
12 Court Reporter.)  
13

14 LISA WEBER, Ph.D.,  
15 sworn as a witness by the Certified Court Reporter,  
16 testified as follows:  
17

18 EXAMINATION  
19 BY MR. McCURDY:

20 Q. Dr. Weber, you and Mr. Dunn talked about a  
21 logistic regression model; do you remember that?

22 A. Yes.

23 Q. Bearing in mind that I majored in history in  
24 college, could you explain what a logistic regression  
25 model is?

26 A. Logistic regression is a way of looking at  
27 what factors are associated with a particular outcome.  
28 So in this case our outcome was whether or not a ballot  
29

1 was accepted or rejected, and we put a whole bunch of  
2 different variables into our model to see which ones  
3 seemed to have a higher association with a ballot  
4 rejection.

5 Q. Is it fair to say that it's an attempt to  
6 isolate the correlation of one variable by controlling  
7 for the effect of others?

8 A. Yeah. That would be a good way of putting it.

9 Q. And I think I understood from your  
10 conversation with Mr. Dunn that the State auditor's  
11 office began by considering the use of I think the  
12 Heckman regression model; is that right?

13 A. Yes.

14 Q. Were there other regression models apart from  
15 the Heckman model that the State auditor's office  
16 considered?

17 A. No. Given that an outcome was a binary S  
18 note, logistic regression is the appropriate method to  
19 use, the question then becomes are there multiple other  
20 steps that into that process, and if so, then the  
21 Heckman regression would be appropriate.

22 Q. Did you attempt to assess the fit of the  
23 logistic regression model against subsets of the data?

24 A. No. I don't think we did that.

25 Q. Was there a reason not to do that?

1           Q. Can you give me an example of how you could  
2 set up a rejection -- or, I'm sorry, a regression  
3 analysis to focus on the rejected ballots?

4           A. Well, we looked at the outcome. Your outcome  
5 variable is a one or a zero, and a regression analysis,  
6 and we assigned a value of one to be a rejected ballot.

7           Q. Okay. Aside from doing that, is there any  
8 other kind of particular decision you make on how to do  
9 the analysis to address that that -- most ballots are  
10 accepted?

11          A. You mean in the statistical analysis, or in  
12 the audit overall?

13          Q. In the statistical analysis, I think you've  
14 told me that, you know, the regression analysis is set  
15 up to account for that, and I've never done a  
16 regression analysis.

17           So I'm trying to get as much an understanding  
18 of how you can set up a regression analysis to account  
19 for the notion that the vast majority of ballots are  
20 accepted and a small number of ballots are rejected.

21          A. Without getting into all the mathematics  
22 behind it, logistic regressions are used quite commonly  
23 in biomedical research and a variety of other fields.  
24 For instance, predicting who's going to get, say,  
25 cancer, or who's going to die of a heart attack. You

1 know, vast majority of people don't die of heart  
2 attacks.

3 So, you know, it's quite common for this  
4 technique to be trying to predict as something that's a  
5 low probability of occurrence.

6 Q. Do the audit's results with respect to race  
7 and ethnicity indicate whether the results owe to the  
8 cultural factors we talked about that are referenced on  
9 Page 20 in the performance audit, or on the other hand  
10 to the bias of signature reviewers?

11 A. No. Regression is a correlational technique.  
12 It just says that something is related to the outcome  
13 by higher than chance, but it does not tell you why.  
14 We had a lot of discussion about this audit and what  
15 really our scope would be.

16 And in conversations with our director, we  
17 decided that the why is really more appropriate for  
18 researchers to address, not auditors, and they really  
19 weren't being asked that either in the mandate.

20 Q. Does the State auditor's office have a view  
21 apart from the statistical analysis of whether any  
22 difference in the rejection rates or ballots depend --  
23 for different racial groups relates to bias as opposed  
24 to what the auditor refers to as cultural factors?

25 A. I can't speak for the audit office as a whole.

1 signature mismatch.

2 Q. And to the extent you can, could you explain  
3 what a signature mismatch is?

4 A. A signature mismatch is when a ballot comes in  
5 to a voter before you sign an envelope and -- a  
6 security envelope. And when that ballot gets processed  
7 by the county that it's from, they open the outer  
8 envelope, discard it. They have the ballot that has  
9 the signature on it. They look at that signature, pull  
10 up on a screen the signature as recorded in the  
11 Secretary of State's database on your voter  
12 registration record. And someone with training  
13 compares that signature that they see on the envelope  
14 to what is in the records and makes a determination of  
15 whether or not the same individual signed both  
16 locations.

17 Q. And skipping over to the next column,  
18 "unsigned," what is that?

19 A. That's looking specifically at ballots that  
20 were rejected because that location on the ballot where  
21 you're supposed to sign that security envelope was not  
22 signed. It was left blank.

23 Q. Is it fair to say that whether a ballot is  
24 unsigned is objectively measurable by the county that  
25 receives it?

1           A. I suppose there's no way to tell if they  
2 signed it in invisible ink and you can't see it. But,  
3 generally, yes, an observation if they do not see a  
4 signature on the ballot, they would say it's unsigned.

5           Q. Meaning that there's no meaningful element of  
6 discretion in determining whether a ballot is signed or  
7 unsigned?

8           A. No.

9           Q. And let me just -- let me ask that question a  
10 little differently because it's going to be unclear on  
11 the record whether your "no" there is no element of  
12 discretion, or whether your "no" was a, no, I disagree  
13 with you in the question you asked.

14           Is there any element of discretion of  
15 determining whether a ballot is signed or unsigned?

16           A. I suppose there's always an element of  
17 discretion if it's so faint that you can't even tell if  
18 it was actually a signature or a smudge, but probably  
19 far less ambiguity in making that decision than there  
20 are for other reasons such as a signature mismatch.

21           Q. Okay. What's an odds ratio?

22           A. An odds ratio is the likelihood of the events  
23 you're trying to predict occurring relative to whatever  
24 you set up as your comparison group.

25           So, for example, on Page 55 there, top of it

1 being Thurston County, it says odds ratio for any  
2 reason is 2.755. That means that voters in Thurston  
3 County are 2.7 times more likely to have a ballot  
4 rejected than if they're in Yakima.

5 Q. And what is the standard error as is reflected  
6 in that chart? I realize standard error can mean a  
7 couple of different things in the world of statistics,  
8 generally.

9 A. The standard error is the band of reliability  
10 or -- but the band of an error estimate that there  
11 could be around that odds ratio.

12 So when that band of plus, for instance, on  
13 that Thurston one, 2.755, and then you have a plus or  
14 minus .189 percent, if that does not totally negate the  
15 differences, it's considered statistically significant.

16 Q. Okay. So is it fair to say that at a given  
17 confidence level, the range of the odds level is -- and  
18 we're still talking at this Thurston County example --  
19 is 2.755 plus or minus .198?

20 A. Yes.

21 Q. Sticking with that Thurston County example, at  
22 what confidence level, meaning at what P value, is that  
23 standard error determined here?

24 A. In this table, you see right above, at the  
25 very top there, it says -- darker orange the cell is?

1 Q. Yeah.

2 A. Those shades of orange will tell you what the  
3 P value is.

4 Q. Okay. So the standard error in the Thurston  
5 County example you gave is at a P value of .001.

6 Is that --

7 A. Yes. Uh-huh. Yes. That's the darkest shade  
8 of orange on the table.

9 Q. But if you were to look down at location  
10 comparison out of state, the standard error for that  
11 value references the mid-tone P value of .01?

12 A. Yes.

13 Q. I'd like to direct you to the race and  
14 ethnicity chart on Page 55 and to the entry for  
15 Hispanic and the odds ratio for signature mismatch.

16 A. Okay.

17 Q. Do you see that that's 1.283?

18 A. Yes.

19 Q. And the standard error is .031?

20 A. Correct.

21 Q. So the odds ratio at the confidence level  
22 indicated for that cell is anywhere between 1.252 and  
23 1.314, right? And I realize I'm --

24 A. I didn't do the math, but you have the right  
25 approach.

1           Q. Okay. So, yeah. So I was going to say I  
2 realize I'm putting you in a position to do math in  
3 your head.

4           Do you -- if you've got a calculator in front  
5 of you, do you want to take a stab and just check my  
6 numbers?

7           A. Okay. I'm getting a lower bound of 1.25 and  
8 an upper bound of 1.31.

9           Q. Okay. And then let's go the same exercise, if  
10 you don't mind, Dr. Weber, for the odds ratio and the  
11 standard error for Hispanic unsigned.

12          A. I'm getting a lower value of .963 and an upper  
13 value of -- so that can't be right. That's not right.  
14 All right. A lower value of 1.143.

15          Q. Uh-huh.

16          A. And then an upper value of 1.28.

17          Q. Is it fair to say that the ranges for the odds  
18 ratio of signature mismatch and unsigned overlap,  
19 meaning that 1.28 is higher than 1.25?

20          A. Well, 1.28 is higher than 1.25.

21          Q. Yeah. So the ranges of possibilities at a  
22 given confidence level for these two odds ratios  
23 overlap, right?

24          A. Well, they're predicting different things. So  
25 there's no comparison really between one and the other.

1 Q. Well, okay. Let me ask -- let me ask it this  
2 way.

3 Is it possible to say, based on this chart,  
4 that with statistical significance at the level you've  
5 indicated, that the chart indicates, that a ballot from  
6 an Hispanic voter is more likely to be rejected than a  
7 ballot from a white voter for the reason that it is  
8 unsigned as opposed to the reason that the signatures  
9 failed to match?

10 A. No. It isn't comparing one verus the other.  
11 It is saying that the Hispanic voter is almost 21  
12 percent more likely to have their ballot rejected for  
13 being unsigned than a white voter is. And an Hispanic  
14 voter is about 28 percent more likely to have their  
15 ballot rejected for signature match -- mismatch than a  
16 white voter is.

17 Q. Okay. But that summary is a little bit  
18 imprecise, right, because it doesn't account for the  
19 standard error for both measurements?

20 A. Yeah. Uh-huh.

21 Q. So would it be fair to say instead that an  
22 Hispanic voter is somewhere between 25 and 31 percent  
23 more likely than a white voter to have a ballot  
24 rejected for signature mismatch; is that fair?

25 A. Yes. That's the -- with the band of error

1       that we're looking at here, that it says that, whatever  
2       it was, I think 90, 95 percent, somewhere in there, 90  
3       to 95 percent of the time you'd expect, if you ran an  
4       analysis with random things coming out, that you would  
5       expect to see the same result of where it would come  
6       within those values.

7           Q. And at that same confidence level an Hispanic  
8       voter is between 14 percent and 28 percent more likely  
9       than a white voter to have their ballot rejected for  
10      the reason that it is unsigned, correct?

11          A. Correct.

12          Q. With that knowledge in front of you, are you  
13       able to say at that confidence level that an Hispanic  
14       voter is any more likely to have a ballot rejected, for  
15       a discretionary reason, any more likely -- I'm sorry --  
16       this is a little bit tricky, so I'm going to start  
17       over.

18           At that confidence level are you able to say  
19       that the percent chance over which an Hispanic voter is  
20       likely to have a signature rejected for mismatch as  
21       compared to a white voter differs from the percent  
22       chance over which an Hispanic voter is likely to have a  
23       signature rejected for being unsigned as opposed to a  
24       white voter?

25          A. It would depend on what level of confidence

1 level you wanted to say that at. The best point  
2 estimate is the value that's under the odds ratio. So  
3 if you're willing to tolerate a whole lot of error in  
4 making that statement, one is a higher number than the  
5 other.

6 In terms of practical significance, if you're  
7 looking at it that way, these numbers are pretty  
8 similar.

9 Q. Yeah. So as a practical matter, the  
10 difference between how Hispanic ballots are treated and  
11 white ballots are treated is sort of identical whether  
12 it's for an objective reason or a discretionary reason?

13 A. It probably goes beyond what we looked at in  
14 this audit to make a conclusionary statement like that.  
15 So I'd be hesitant to make a conclusionary statement  
16 based on the work that we did in this audit; like that  
17 would be something as a methodologist we put in our  
18 audio report in that phrasing.

19 Q. Fair enough.

20 Does -- did the results of the audit give you  
21 a basis to disagree with the statement?

22 A. The results of the audit tell me that the  
23 likelihood of an Hispanic voter getting their signature  
24 rejected for signature mismatch is about the same  
25 likelihood as them getting it rejected for being

1 REPORTER'S CERTIFICATE  
2

3 I, JUDY STEENBERGEN-WEBB, the undersigned Certified  
4 Court Reporter, pursuant to RCW 5.28.010 authorized to  
5 administer oaths and affirmations in and for the State of  
6 Washington, do hereby certify that the sworn testimony and/or  
7 proceedings, a transcript of which is attached, was given  
8 before me at the time and place stated therein; that any  
9 and/or all witness(es) were duly sworn to testify to the  
10 truth; that the sworn testimony and/or proceedings were by me  
11 stenographically recorded and transcribed under my  
12 supervision, to the best of my ability; that the foregoing  
13 transcript contains a full, true, and accurate record of all  
14 the sworn testimony and/or proceedings given and occurring at  
15 the time and place stated in the transcript; that a review of  
16 which was requested; that I am in no way related to any party  
17 to the matter, nor to any counsel, nor do I have any financial  
18 interest in the event of the cause.

19 WITNESS MY HAND AND SIGNATURE this 28th day of October,  
20 2022.

21   
22

23 JUDY STEENBERGEN-WEBB, RPR

24 Certified Court Reporter, WA CCR #2495  
judyswebbccrwa@outlook.com

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2

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4 Court Reporter, pursuant to RCW 5.28.010 authorized to  
5 administer oaths and affirmations in and for the State of  
6 Washington, do hereby certify that the sworn testimony and/or  
7 proceedings, a transcript of which is attached, was given  
8 before me at the time and place stated therein; that any  
9 and/or all witness(es) were duly sworn to testify to the  
10 truth; that the sworn testimony and/or proceedings were by me  
11 stenographically recorded and transcribed under my  
12 supervision, to the best of my ability; that the foregoing  
13 transcript contains a full, true, and accurate record of all  
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20 2022.

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23 JUDY STEENBERGEN-WEBB, RPR

24 Certified Court Reporter, WA CCR #2495  
judyswebbccrwa@outlook.com